

**Assembly Instructions:**

1. Remove main assembly (A) from box.
2. Install the front and rear wheel holders on the horizontal arms using the tapered Allen bolts. The front wheel holder has 2 bolts (diagram 1) and the rear has 3 bolts (diagram 2) so you cannot mount on the wrong location on the horizontal arm. **NOTE:** Do not over-tighten the Allen bolts.
3. Push the male horizontal section (with ratchet upright attached) into the female horizontal section (diagram 3).
4. Starting with the crossbar assembly closest to the vehicle, position the crossbar assembly so the ratchet upright arm is on the opposite side away from the vehicle. Place the remaining cross bar onto main assembly A (diagram 4). Note the orientation of the crossbars on the main assembly. It is important that they are in this orientation so when the rack is folded up it does not contact the vehicle.
5. Insert 2 carriage bolts into the holes and secure with the washer and nut. Repeat procedure on second cross bar assembly. Tighten nuts securely with 1/2" wrench.


**1**

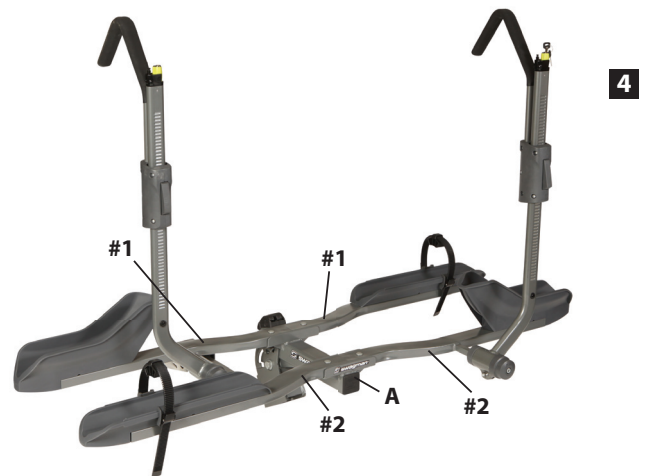
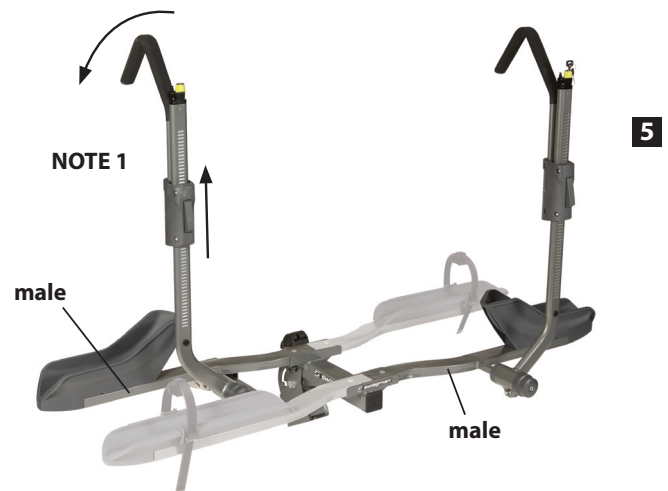
**2**

**3**
**Installing the Semi 2.0 into your Vehicle:**

1. Insert the bike rack into the 2" or 1-1/4" receiver. Install the 1/2" threaded locking hitch pin and tighten to 50 ft. lbs. (very tight). Put on the lock head until it is securely attached.
2. If the rack is used on a 1-1/4" receiver, using a 6mm Allen wrench remove the Allen Bolt that holds on the spacer.

**Loading Bikes:**

1. Move the ratchet arm forward. Push the ratchet release and move the ratchet hook assembly to the end of the ratchet arm (NOTE 1 – diagram 5).
2. Put the bike into the wheel trays with the front wheel in the upswept wheel tray.
3. While holding the bike rotate the ratchet arm upward towards the fork crown.
4. Position the hook assembly tight against the fork crown or front brake of the bike (diagram 6).
5. Pull the hook downward so that the hook is tight against the tire. After the hook contacts the tire push down hard until you hear an extra click in the ratchet release. **NOTE:** The hooks should be tight against the fork crown and the tire. Move the bike back and forth to ensure it is fully seating. Readjust as necessary.
6. Move the strap in the rear wheel tray so it is positioned in the center of the tire (diagram 7).
7. Push the strap through the buckle and pull the strap tight. **NOTE:** On smaller wheels you will need to use the spacer block on the strap.
8. If carrying one bike use the inside position, nearest to the vehicle. **IMPORTANT:** You have to ensure that all of the wheel straps are attached and secure.


**4**

**5**

9. Pull lock out of the holder at the end of each arm. Loop the cable through the bike frame and then attach it to the lock post on the ratchet arm (diagram 8).
10. NOTE: The key is required to lock the mechanism to the lock post.
11. When the rack is not in use the main ratchet arm can be folded down and secured with wheel strap. The complete rack can be folded up against the vehicle. Ensure that the cam lever is completely engaged before driving.
12. The rack can be tilted away from the vehicle by pulling the cam lever and lowering the rack and bikes. **NOTE:** Ensure you return the rack to the level position before driving.

**Important Notes:**

- This bicycle rack has been designed to carry 1 or 2 bikes.
- This rack is designed for typical use and applications (on paved or smooth gravel roads). Do not use this rack on a vehicle that will be driven on rough roads or where the rack (and bikes) will be subject to significant or constant jarring and/or shock, or any vehicle with very stiff springs that will transfer the load shock directly to the rack and bikes.
- Proper fitting and installation of this carrier to your specific vehicle is critical, and is not the manufacturer's responsibility.
- Improper use of this product may result in damage to your rack, your vehicle, your bicycles, or even other vehicles driving behind you as a result of colliding with or trying to avoid fallen bicycles and/or the rack.
- The purchaser should be aware that the load created by a rack and bicycles can exceed the maximum rating on the hitch or bumper.
- Swagman Racks are powder coated to help prevent rust. When leaving them outside for extended periods of time the finish will lose its luster. It is recommended that when not in use it is stored indoors.
- Take care to add padding on any area of the bikes that touches another bike or any part of the vehicle. Damage can and will happen (to your bikes and/or to the vehicle) if care is not taken during the loading and transporting of your bikes, and padding used where necessary.
- Bicycle tires should be kept at least 6" away from the exhaust pipes of the vehicle. The high temperature exhaust exiting from the exhaust pipes is hot enough to melt or damage tires. The bike rack should also be kept away from the direct exhaust flow. Also check when the bike rack is folded up.
- Bikes fitted with large accessories (such as a child carrying seat) will greatly increase the wind resistance and therefore the pressure on the rack and all vehicle mounting points. Reducing vehicle speed will reduce the chance of any problems occurring because of this situation.
- After reading this manual, should you have any additional questions regarding the compatibility, fitting, and/or use of this rack, please call your nearest Swagman authorized retail dealer or Swagman Customer Service.

**⚠ Mounting the bike rack on a Trailer or 5th Wheel:**

1. Purchaser is advised that the load created by rack and bicycles will exceed the strength of trailer or 5th wheel bumper, mounting location or the bike rack. The rack is not under warranty if mounted in this location.

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